

ER 9-9060/a

The Honorable Edna P. Kelly
House of Representatives
Washington, D. C.

Dear Mrs. Kelly:

The White House has referred to my attention your letter of November 22, 1957 addressed to the President. Your letter enclosed an article from the AMERICA of May 18, 1957 entitled, "Red Part in the IDY."

This article, as well as other and more detailed Soviet scientific data, was previously available to this Agency. In particular, we have reviewed many Soviet periodicals and statements by Russian officials and scientists. All of these, including the information contained in the AMERICA article, were carefully considered and evaluated against evidence from other sources in arriving at the basic intelligence estimates which the Intelligence Community prepared on this subject.

Sincerely,

[Signature]

Allen W. Dulles
Director

OGC/LC:JSW:mks:jeb
Rewritten: AWD:js 9 Dec 57
Rewritten: AWD:jnf 11th Dec 57
Dist:

Orig & 1 - Addressee

1 - DCI

1 - DDCI

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1 - Leg. Counsel

1 - Reading

1 - *Copy Types for White House*

Sent attn: B.G. Goodpastor

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THE SIGNATURE LINE

6 December 1957


MEMORANDUM FOR: Legislative Counsel

FROM: Stanley J. Grogan, Asst. to the DCI

1. AMERICA is a publication printed weekly by the American Press, 116 Main Street, Norwalk, Connecticut. The New York office of American Press is at 70, East 45th Street. The Editor-in-Chief of AMERICA is the Rev. Thurston N. Davis, S. J. His office is at 329 West 108th Street, New York 25.

2. There is a technicality involved in stating who publishes AMERICA. While the American Press prints it, the magazine carries a statement that AMERICA is edited and published by the following Jesuit fathers of the United States and Canada, and then lists the names of 27 Jesuit fathers. This is done, I am told, so that it may not be inferred that this magazine represents all the Jesuit Order, but only represents the views of these 27.

3. AMERICA sells for 20 cents a copy or \$8 a year. It does not want fiction but handles some fictional sketches. It is interested in realistic discussions of current topics about which people think and talk. It desires topics that that have an interest for Catholic readers. It is interested in sociological, political, religious, human-interest articles, as well as current-event and historical articles with a contemporary slant and angle. It is not especially interested in historical biographical articles. It desires articles of 1500 to 2000 words and pays about 1½ cents a word. It also takes poetry of up to 30 lines for which it pays \$5 on publication.


STANLEY J. GROGAN
Assistant to the Director

STAT

The Assistant to the President

November 27, 1957

Dear Mrs. Kelly:

For the President it is my pleasure to acknowledge your November 22nd letter and its enclosed article from the publication "America" in respect to Soviet participation in the International Geophysical Year. Your assessment of this article, as well as the article itself, are being sent to those directly concerned. We appreciate your bringing this matter to our attention.

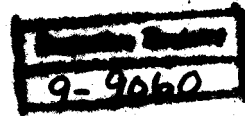
With best wishes,

Sincerely,

The Honorable Edna F. Kelly
House of Representatives
Washington, D. C.

BNH/bkn

Congress of the United States
House of Representatives
Washington, D. C.



November 22, 1957

Honorable Dwight D. Eisenhower
The President of the United States
The White House,
Washington 25, D. C.

My dear Mr. President:

In view of the Administration's expressed shock over the launching of Sputnik, the enclosed article attains greater significance, especially since it was originally published on May 18, 1957.

I am sending this to you to further emphasize the laxity existing in United States Intelligence Services today - when a rigid, cohesive intelligence organization could be the means to our survival.

Sincerely yours,

/s/ EDNA F. KELLY

1021 DEC -5 BW S:10

Red Part in the IGY

Sixteen Government agencies and over a hundred scientific institutions, headed by the Soviet Academy of Sciences, are actively involved in the Soviet Union's preparation for the International Geophysical Year. A sum of 175 million rubles has been earmarked for various experiments, in addition to what will be spent by the various Soviet ministries involved in the IGY program. In the course of the IGY, the Soviet Union plans to set up 340 new experimental stations, and to send expeditions to Antarctica and to the equatorial zone.

More specifically, Soviet scientists will tackle the problems of exploring ionospheric layers and establishing the relationship between their electric properties and other physical properties, such as temperature, air pressure, etc., as well as studying attenuation of radio waves and distribution of electronic density in the ionosphere. A special effort will also be made in the domain of geomagnetism, cosmic rays, solar activities, etc.

NEW COSMIC-RAY THEORY

Russian scientists have developed a new theory on the origin of cosmic rays. Using radio-astronomic methods of investigation, Vitaly Ginzburg and Joseph Shklovsky have established that beyond the limits of the earth's atmosphere cosmic rays consist mainly of nuclei of hydrogen and other elements, including iron. These particles move at a great velocity, almost equal to the speed of light. According to Ginzburg and Shklovsky, cosmic rays are the result of the outbursts of the novae and supernovae ("new stars"), which yield a tremendous amount of nuclear energy.

Scientists of the Wrangel Island Polar Station assigned to the IGY program are working on observation of solar radiation. More intensive observation of the sun is being carried out at the Pulkovo Observatory near Leningrad. There, for several weeks now, Soviet scientists have been using a new radiotelescope, which can register solar radiation of 3 cm wave length. The reflector of this instrument is about 390 feet long and about 10 feet high, and its surface is twice as large as that of the largest U. S.-built radiotelescope working in the millimeter and centimeter ranges.

With the new radiotelescope, Soviet scientists have discovered that the intensity of solar radiation varies considerably, even when changes in sun spots are negligible. During the IGY the Soviets hope to obtain more precise data which will make it possible to determine the causes of solar radiation and the laws governing it. The Pulkovo Observatory intends to study radiations of

the sun, the moon, Venus, Mars and Jupiter, as well as of remote galaxies.

A somewhat similar, highly sensitive radiotelescope for observation of solar radiation has been installed at the high-altitude observatory at Kislovodsk.

The Soviets have openly admitted that they will launch several artificial satellites during the International Geophysical Year, with recording and fast playback equipment which will transmit measurements on pressure, temperature, density and magnetic field while passing over Soviet receiving stations. The Soviet satellites, according to Soviet sources, will have a near-polar orbit. The weight of the satellites is reported to be a minimum of 50 pounds, but probably much more, possibly 100 pounds. However, if we are to believe some other reports, the Soviet Union intends to launch a satellite of about one ton in weight.

While none of the physical experiments contemplated for the American IGY satellite program are in the fields of biology or medicine, the Soviets are reported to be planning both biological and medical experiments "early" in their satellite program. Animals have already been fired to altitudes of 250 miles. *Moscow News* for February 23 described experiments made with two dogs.

During one of these series of experiments the dogs were placed in a small non-hermetic section of the rocket head, where catapult boxes were installed. Attached to these were special spacesuits, into which the animals were put without any oxygen masks. An oxygen-supply system was provided, sufficient to sustain the dogs for several hours. At the highest point of the rocket's trajectory—at an altitude of 110 kilometers—the rocket head (with the animals in it) became detached from the body of the rocket.

During the period of free fall, the right-hand catapult box with its dog was catapulted from the rocket head, and three seconds later the parachute system started operating. This meant that the animal descended from a height of 75-85 kilometers. The descent took an hour, during which time the dog was subjected to the external influences in the upper strata of the atmosphere.

Meanwhile the rocket head continued its free fall. At an altitude of 35-50 kilometers, when the rocket was travelling at 1,000-1,150 meters per second, the second box was catapulted. This box, with the dog inside, continued in free fall to an altitude of three or four kilometers, at which point the parachute opened automatically. Films of the behavior of the animals were made throughout the rocket flight, until the moment each was catapulted free.

SERGE L. LEVITSKY

DR. LEVITSKY lectures in the Institute of Contemporary Russian Studies, Fordham University.

THE WHITE HOUSE

The Director
Central Intelligence Agency
Washington 25, D. C.

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CENTRAL INTELLIGENCE AGENCY

WASHINGTON 25, D. C.

OFFICE OF THE DIRECTOR

The Honorable Edna F. Kelly
House of Representatives
Washington, D. C.

Dear Mrs. Kelly:

The White House has referred to my attention your letter of November 22, 1957 addressed to the President. Your letter enclosed an article from the AMERICA of May 18, 1957 entitled, "Red Part in the IGY."

This article, ^{to} was previously available within the Agency. In addition, we have reviewed many Soviet periodicals and statements by Russian officials and scientists. All of these, including the information contained in the AMERICA article, were carefully considered and evaluated against evidence from other sources in arriving at the basic intelligence estimates ~~on the subject.~~

Soviet activity in the field of artificial earth satellites has received and will continue to receive the attention of the intelligence community. The evaluation of all available evidence resulted in estimates by the intelligence community, with regard to the Soviet earth satellite effort, which proved to be quite accurate.

Sincerely,

Allen W. Dulles
Director

*The Intelligence Community
which are the based on
this subject*

*As well as other
st more detailed Secret
Data*

1/10/58



CENTRAL INTELLIGENCE AGENCY

WASHINGTON 25, D. C.

OFFICE OF THE DIRECTOR

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House of Representatives
Washington, D. C.

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Soviet activity in the field of artificial earth satellites has received ~~a great deal of~~ ^{the} attention by the ~~entire~~ intelligence community. The evaluation of all available evidence resulted in estimates by the intelligence community ~~not only that the Soviets would launch several artificial satellites during the International Geophysical Year but also that the launchings would take place during 1957.~~

~~In view of your interest in this matter I trust that the above information will be of some assistance. I would be glad to discuss this situation in greater detail if you desire.~~

Sincerely,

Allen W. Dulles
Director

STAT

THE WHITE HOUSE OFFICE

ROUTE SLIP

(To Remain With Correspondence)

TO The Director
Central Intelligence Agency

PROMPT HANDLING IS ESSENTIAL.
WHEN DRAFT REPLY IS REQUESTED
THE BASIC CORRESPONDENCE MUST
BE RETURNED. IF ANY DELAY IN
SUBMISSION OF DRAFT REPLY IS
ENCOUNTERED, PLEASE TELEPHONE
OFFICE OF THE STAFF SECRETARY.

Date November 29, 1957

FROM THE STAFF SECRETARY

ACTION: Comment _____
Draft reply _____
For direct reply _____
For your information XXXX _____
For necessary action _____
For appropriate handling XXXX _____
See below _____

Remarks: _____

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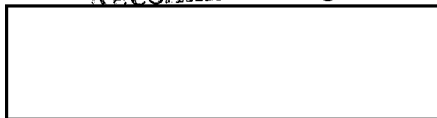
By direction of the President:

A. J. Goodpaster
A. J. GOODPASTER
Staff Secretary
[Signature]

MEMORANDUM FOR: THE DIRECTOR

Attached is a proposed letter to Mrs. Edna F. Kelly. In the meantime, we are delivering to Senator Hayden the proposed reply as corrected by you. I have checked with OSI and the information contained in the article was nothing new to them and had been available for sometime. Attached for your information is a brief note on the magazine "America."

Recommend signature.



Legislative Counsel

6 December 1957
(DATE)

FORM NO. 101 REPLACES FORM 10-101
1 AUG 54 WHICH MAY BE USED.

(47)

MEMORANDUM FOR: MR. DULLES

I would like to speak to you about the attached
before you sign it.

JSE

JSE 9 Dec 57

(DATE)

FORM NO. 101 REPLACES FORM 10-101
1 AUG 54 WHICH MAY BE USED.

(47)

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